OIPE

RAW SEQUENCE LISTING   DATE: 11/01/2001
PATENT APPLICATION: **US/09/964,238**   TIME: 13:41:55

Input Set : **N:\Crf3\RULE60\09964238.txt**
Output Set: **N:\CRF3\11012001\I964238.raw**

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 3 <110> APPLICANT: Vlaams Interuniversitair Instituut voor Biotechnology
 5 <120> TITLE OF INVENTION: SMAD-INTERACTING POLYPEPTIDES AND THEIR USE
 7 <130> FILE REFERENCE: 2676-4232US
 9 <140> CURRENT APPLICATION NUMBER: 09/964,238
10 <141> CURRENT FILING DATE: 2001-09-26
12 <150> PRIOR APPLICATION NUMBER: 09/449,285
13 <151> PRIOR FILING DATE: 1999-11-24
15 <150> PRIOR APPLICATION NUMBER: PCT/EP98/03193
16 <151> PRIOR FILING DATE: 1998-05-28
18 <150> PRIOR APPLICATION NUMBER: 97201645.5
19 <151> PRIOR FILING DATE: 1997-06-02
21 <160> NUMBER OF SEQ ID NOS: 27
23 <170> SOFTWARE: PatentIn version 3.0
25 <210> SEQ ID NO: 1
26 <211> LENGTH: 3006
27 <212> TYPE: DNA
28 <213> ORGANISM: Mus musculus
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35 gtgaaaaacc ttacgaatgc ccaaactgca agaaacgctt ctctcattct gggtcctaca     180
37 gttcacatat cagcagcaag aaatgtattg gtttaatatc agtaaatggc cgaatgagaa     240
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43 gcttacttaa gattaaaaca gaaccactag acttcaatga ctataaagtt cttatggcaa     420
45 cacatgggtt tagtggcagc agtccctta tgaacggtgg gcttggagcc accagccctt     480
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49 ctttacttgg atttcccact atgaatagta acttgagtga ggtacaaaag gttctacaga     600
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53 tgaaaggtta tcacatgaag gatccatgtt ctcagccaga agaacaaggg gtaacttctc     720
55 ccaatattcc ccctgtcggt cttccagtag tgagtcataa cggtgccact aaaagtatta     780
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67 gagtttttgt tgataataaa gccctcctct tgtcatctgt actttccgag aaaggactga    1140
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Input Set : N:\Crf3\RULE60\09964238.txt
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 93 tgaacccatt tagtgccaag cctttataca cccctcttcc accacagagc gcatttcccc   1920
 95 ctgccacttt catgccacca gtccagacca gcatccccgg gctacgacca tacccaggac   1980
 97 tggatcagat gagcttccta ccgcatatgg cctataccta cccaacggga gcagctacct   2040
 99 ttgctgatat gcagcaaagg aggaaatacc agaggaaaca aggatttcag ggagacttgc   2100
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103 tgtctcgaaa gaagataaag aagacagaaa gtggcatgta tgcatgtgac ttatgtgaca   2220
105 agacattcca gaaaagcagt tcccttctgc gacataaata cgaacacaca ggaaagagac   2280
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111 actcgggctc ctactcgcag cacatgaatc acaggtactc ctactgcaag cgggaggcgg   2460
113 aggagcggga agcagccgag cgcgaggcgc gagagaaagg gcacttggga cccaccgagc   2520
115 tgctgatgaa ccgggcttac ctgcagagca tcacccctca ggggtactct gactcggagg   2580
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121 aaagtgaaaa taaaagtatg gatacggatc ccgaaacgat acgggatgag gaagagactg   2760
123 gggatcactc gatggacgac agttcagagg atgggaaaat ggaaaccaaa tcagaccacg   2820
125 aggaagacaa tatggaagat ggcatgggat aaactactgc attttaagct tcctattttt   2880
127 tttttccagt agtattgtta cctgcttgaa aacactgctg tgttaagctg ttcatgcacg   2940
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135 <211> LENGTH: 944
136 <212> TYPE: PRT
137 <213> ORGANISM: Mus musculus

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145             20                  25                  30
147 His Ser Gly Glu Lys Pro Tyr Glu Cys Pro Asn Cys Lys Lys Arg Phe
148             35                  40                  45
150 Ser His Ser Gly Ser Tyr Ser Ser His Ile Ser Ser Lys Lys Cys Ile
151         50                  55                  60
153 Gly Leu Ile Ser Val Asn Gly Arg Met Arg Asn Asn Ile Lys Thr Gly
154 65                  70                  75                  80
156 Ser Ser Pro Asn Ser Val Ser Ser Ser Pro Thr Asn Ser Ala Ile Thr
157                 85                  90                  95
159 Gln Leu Arg Asn Lys Leu Glu Asn Gly Lys Pro Leu Ser Met Ser Glu
160             100                 105                 110
162 Gln Thr Gly Leu Leu Lys Ile Lys Thr Glu Pro Leu Asp Phe Asn Asp
163         115                 120                 125
165 Tyr Lys Val Leu Met Ala Thr His Gly Phe Ser Gly Ser Ser Pro Phe
166     130                 135                 140
168 Met Asn Gly Gly Leu Gly Ala Thr Ser Pro Leu Gly Val His Pro Ser
169 145                 150                 155                 160
171 Ala Gln Ser Pro Met Gln His Leu Gly Val Gly Met Glu Ala Pro Leu
172                 165                 170                 175
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PATENT APPLICATION: US/09/964,238   TIME: 13:41:55

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175             180             185             190
177 Leu Gln Ile Val Asp Asn Thr Val Ser Arg Gln Lys Met Asp Cys Lys
178         195             200             205
180 Thr Glu Asp Ile Ser Lys Leu Lys Gly Tyr His Met Lys Asp Pro Cys
181     210             215             220
183 Ser Gln Pro Glu Glu Gln Gly Val Thr Ser Pro Asn Ile Pro Pro Val
184 225             230             235             240
186 Gly Leu Pro Val Val Ser His Asn Gly Ala Thr Lys Ser Ile Ile Asp
187             245             250             255
189 Tyr Thr Leu Glu Lys Val Asn Glu Ala Lys Ala Cys Leu Gln Ser Leu
190         260             265             270
192 Thr Thr Asp Ser Arg Arg Gln Ile Ser Asn Ile Lys Lys Glu Lys Leu
193         275             280             285
195 Arg Thr Leu Ile Asp Leu Val Thr Asp Asp Lys Met Ile Glu Asn His
196     290             295             300
198 Ser Ile Ser Thr Pro Phe Ser Cys Gln Phe Cys Lys Glu Ser Phe Pro
199 305             310             315             320
201 Gly Pro Ile Pro Leu His Gln His Glu Arg Tyr Leu Cys Lys Met Asn
202             325             330             335
204 Glu Glu Ile Lys Ala Val Leu Gln Pro His Glu Asn Ile Val Pro Asn
205         340             345             350
207 Lys Ala Gly Val Phe Val Asp Asn Lys Ala Leu Leu Leu Ser Ser Val
208         355             360             365
210 Leu Ser Glu Lys Gly Leu Thr Ser Pro Ile Asn Pro Tyr Lys Asp His
211     370             375             380
213 Met Ser Val Leu Lys Ala Tyr Tyr Ala Met Asn Met Glu Pro Asn Ser
214 385             390                 395             400
216 Asp Glu Leu Leu Lys Ile Ser Ile Ala Val Gly Leu Pro Gln Glu Phe
217             405             410             415
219 Val Lys Glu Trp Phe Glu Gln Arg Lys Val Tyr Gln Tyr Ser Asn Ser
220         420             425             430
222 Arg Ser Pro Ser Leu Glu Arg Thr Ser Lys Pro Leu Ala Pro Asn Ser
223         435             440             445
225 Asn Pro Thr Thr Lys Asp Ser Leu Leu Pro Arg Ser Pro Val Lys Pro
226     450             455             460
228 Met Asp Ser Ile Thr Ser Pro Ser Ile Ala Glu Leu His Asn Ser Val
229 465             470             475             480
231 Thr Ser Cys Asp Pro Pro Leu Arg Leu Thr Lys Ser Ser His Phe Thr
232             485             490             495
234 Asn Ile Lys Ala Val Asp Lys Leu Asp His Ser Arg Ser Asn Thr Pro
235         500             505             510
237 Ser Pro Leu Asn Leu Ser Ser Thr Ser Ser Lys Asn Ser His Ser Ser
238         515             520             525
240 Ser Tyr Thr Pro Asn Ser Phe Ser Ser Glu Glu Leu Gln Ala Glu Pro
241     530             535             540
243 Leu Asp Leu Ser Leu Pro Lys Gln Met Arg Glu Pro Lys Gly Ile Ile
244 545             550             555             560
246 Ala Thr Lys Asn Lys Thr Lys Ala Thr Ser Ile Asn Leu Asp His Asn
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Input Set : N:\Crf3\RULE60\09964238.txt
Output Set: N:\CRF3\11012001\I964238.raw

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247                     565               570                575
249 Ser Val Ser Ser Ser Ser Glu Asn Ser Asp Glu Pro Leu Asn Leu Thr
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252 Phe Ile Lys Lys Glu Phe Ser Asn Ser Asn Asn Leu Asp Asn Lys Ser
253         595               600               605
255 Asn Asn Pro Val Phe Gly Met Asn Pro Phe Ser Ala Lys Pro Leu Tyr
256     610               615               620
258 Thr Pro Leu Pro Pro Gln Ser Ala Phe Pro Pro Ala Thr Phe Met Pro
259 625               630               635               640
261 Pro Val Gln Thr Ser Ile Pro Gly Leu Arg Pro Tyr Pro Gly Leu Asp
262             645               650               655
264 Gln Met Ser Phe Leu Pro His Met Ala Tyr Thr Tyr Pro Thr Gly Ala
265         660               665               670
267 Ala Thr Phe Ala Asp Met Gln Gln Arg Arg Lys Tyr Gln Arg Lys Gln
268         675               680               685
270 Gly Phe Gln Gly Asp Leu Leu Asp Gly Ala Gln Asp Tyr Met Ser Gly
271     690               695               700
273 Leu Asp Asp Met Thr Asp Ser Asp Ser Cys Leu Ser Arg Lys Lys Ile
274 705               710               715               720
276 Lys Lys Thr Glu Ser Gly Met Tyr Ala Cys Asp Leu Cys Asp Lys Thr
277             725               730               735
279 Phe Gln Lys Ser Ser Ser Leu Leu Arg His Lys Tyr Glu His Thr Gly
280         740               745               750
282 Lys Arg Pro His Gln Cys Gln Ile Cys Lys Lys Ala Phe Lys His Lys
283         755               760               765
285 His His Leu Ile Glu His Ser Arg Leu His Ser Gly Glu Lys Pro Tyr
286     770               775               780
288 Gln Cys Asp Lys Cys Gly Lys Arg Phe Ser His Ser Gly Ser Tyr Ser
289 785               790               795               800
291 Gln His Met Asn His Arg Tyr Ser Tyr Cys Lys Arg Glu Ala Glu Glu
292             805               810               815
294 Arg Glu Ala Ala Glu Arg Glu Ala Arg Glu Lys Gly His Leu Gly Pro
295         820               825               830
297 Thr Glu Leu Leu Met Asn Arg Ala Tyr Leu Gln Ser Ile Thr Pro Gln
298         835               840               845
300 Gly Tyr Ser Asp Ser Glu Glu Arg Glu Ser Met Pro Arg Asp Gly Glu
301     850               855               860
303 Ser Glu Lys Glu His Glu Lys Glu Gly Glu Glu Gly Tyr Gly Lys Leu
304 865               870               875               880
306 Arg Arg Arg Asp Gly Asp Glu Glu Glu Glu Glu Glu Glu Glu Glu Ser
307             885               890               895
309 Glu Asn Lys Ser Met Asp Thr Asp Pro Glu Thr Ile Arg Asp Glu Glu
310         900               905               910
312 Glu Thr Gly Asp His Ser Met Asp Asp Ser Ser Glu Asp Gly Lys Met
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315 Glu Thr Lys Ser Asp His Glu Glu Asp Asn Met Glu Asp Gly Met Gly
316     930               935               940
318 <210> SEQ ID NO: 3
319 <211> LENGTH: 2959
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RAW SEQUENCE LISTING   DATE: 11/01/2001
PATENT APPLICATION: US/09/964,238   TIME: 13:41:55

Input Set : N:\Crf3\RULE60\09964238.txt
Output Set: N:\CRF3\11012001\I964238.raw

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321 <213> ORGANISM: Mus musculus
323 <400> SEQUENCE: 3
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328 gcaactcatc agctactcgg tggcagccac ccgtgttccc gggtggcagg acctttggcg   180
330 cccgctactc ccgtccaagt cggaggggct tctcctcaca ccatggccct tcgtggcgca   240
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338 agtcaggtgc catcaatgct tcaggggtcc agcgggggtc cttggaaggc tgtgatgacc   480
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342 agcctgcaag gccaggaaga accaaggtgg gttacagtgt ggacgacccc ctcttggtct   600
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370 gcattcctgg ggacaagaag aacagcccta caactgccac caccagcaaa aaccatctta  1440
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VERIFICATION SUMMARY
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DATE: 11/01/2001
TIME: 13:41:56

Input Set : **N:\Crf3\RULE60\09964238.txt**
Output Set: **N:\CRF3\11012001\I964238.raw**

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L:738 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
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L:886 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
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